



Telefonica

EMF and Mobile Networks Deployment

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Dirección Relaciones Institucionales
Gerencia Relaciones Sectoriales

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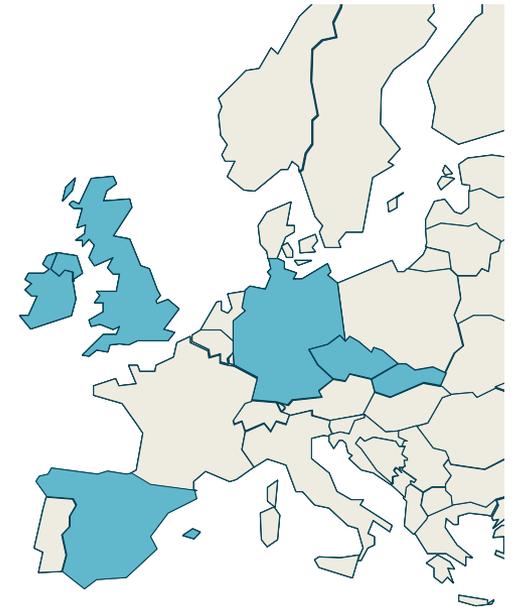
01 Telefonica Approach

Global EMF Project

One of the main risks faced by different mobile operators of TELEFÓNICA is due to the perceptions and social alarm concerning electromagnetic fields (EMF). To try to minimize the impact of this issue, we decided to create a global project at the beginning of 2011.



The project's main objective is to achieve a consistent approach and overall group position on EMF through the sharing of best practices and the coordinating of the actions of the staff currently working on this issue



01 Telefonica Approach

Global Project EMF: Phases

1

Diagnosis

- Analysis of the situation of each of the Operating Business
- Identify strengths and weaknesses of the Operating Businesses
- Establishment of best practices to share
- Study of current situations and competent options

2

Telefónica EMF principles

Strategy to support the new policy will be created with minimum commitments to be agreed upon consultation with Telefónica

3

Draft Indicators & Process

<http://efectoeco.intranet.telefonica/Paginas/Inicio.aspx>



01 Telefonica Approach

Global Project EMF: Principles from our Corporate Website

Telefónica is aware of the general concern regarding electromagnetic fields. Thus, it has a transparent communication policy on this issue. The minimum common commitments on electromagnetic fields subscribed by all Telefónica Group's operators, are:

- Comply strictly with the law and recognized international standards and guidelines, for all products and services.
- Foment legislation based on international guidelines (ICNIRP), especially in those cases where there is no local regulation, and which is in keeping with these for reasons of uniformity and to eliminate barriers to deployment.
- Support and publicize independent scientific research of high quality on mobile communications, recognized by the WHO.
- Communicate openly and transparently to our clients and the public in general all actions made in this regard.

<http://efectoeco.intranet.telefonica/Paginas/Inicio.aspx>

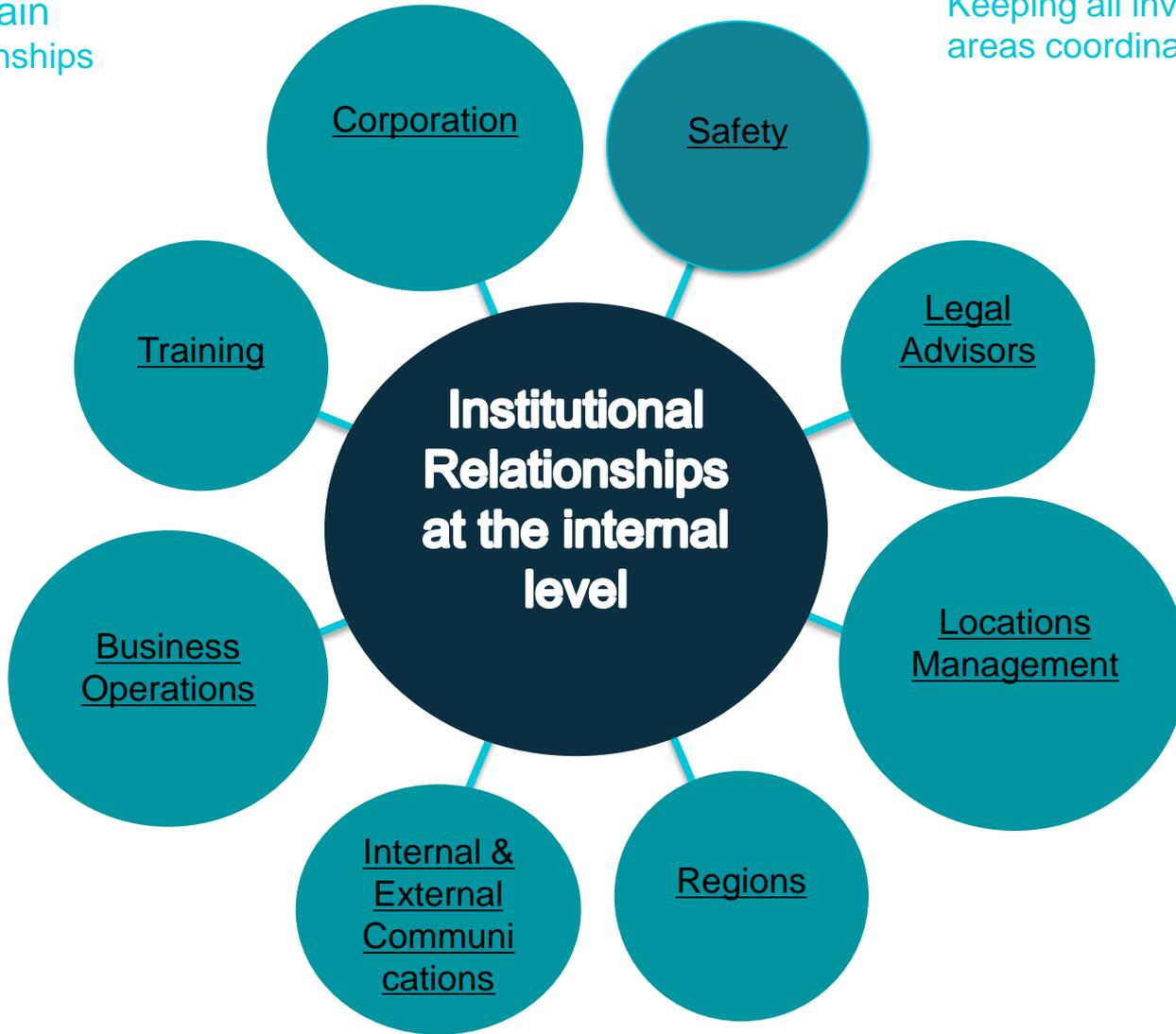
Telefónica

Telefonica Approach

01

Telefónica Spain
Internal Relationships

Keeping all involved
areas coordinated

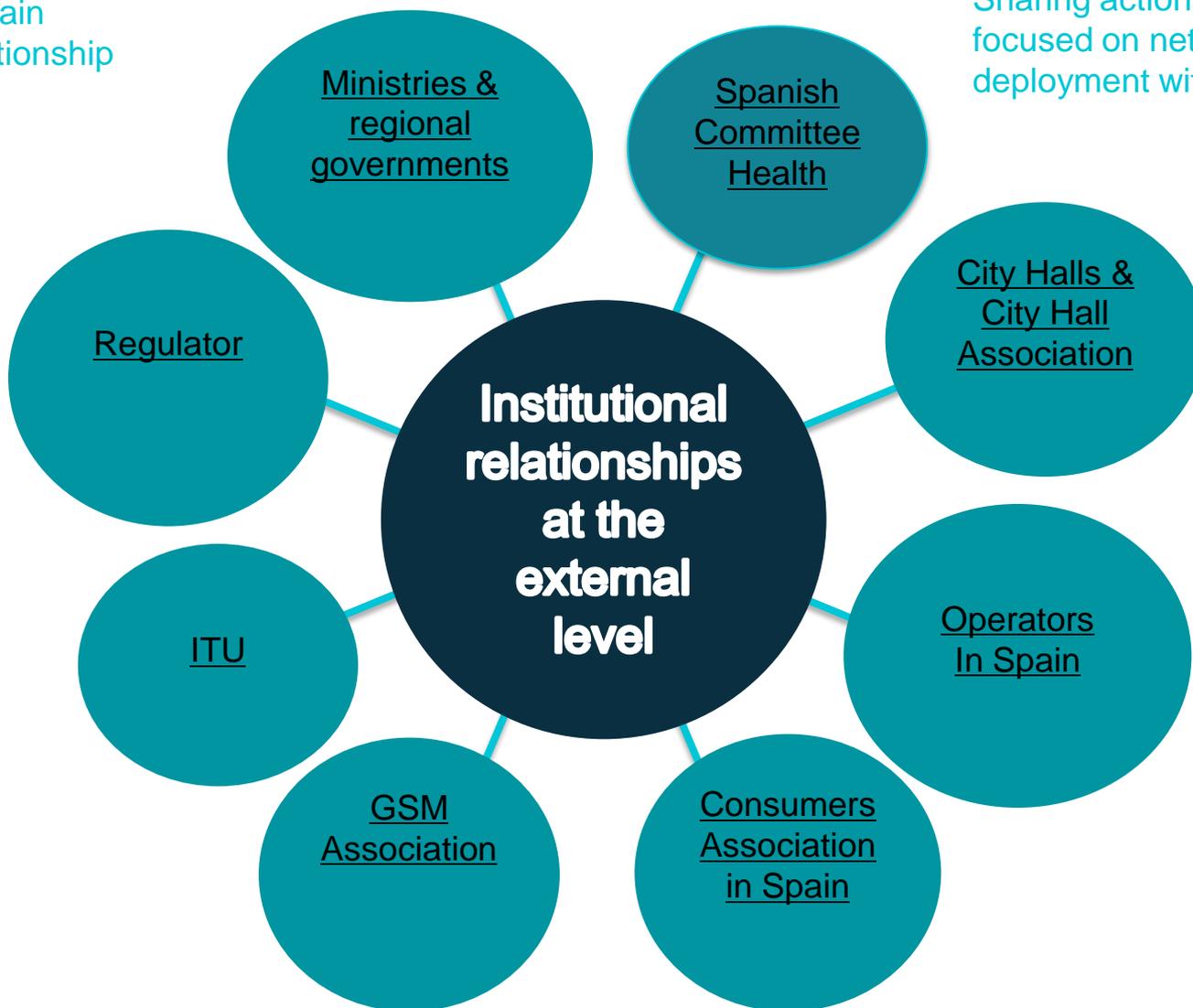


Telefonica Approach

01

Telefónica Spain
External Relationship

Sharing actions
focused on network
deployment with good quality



02 History of emissions and health issues for mobile operators in Spain

Phase I

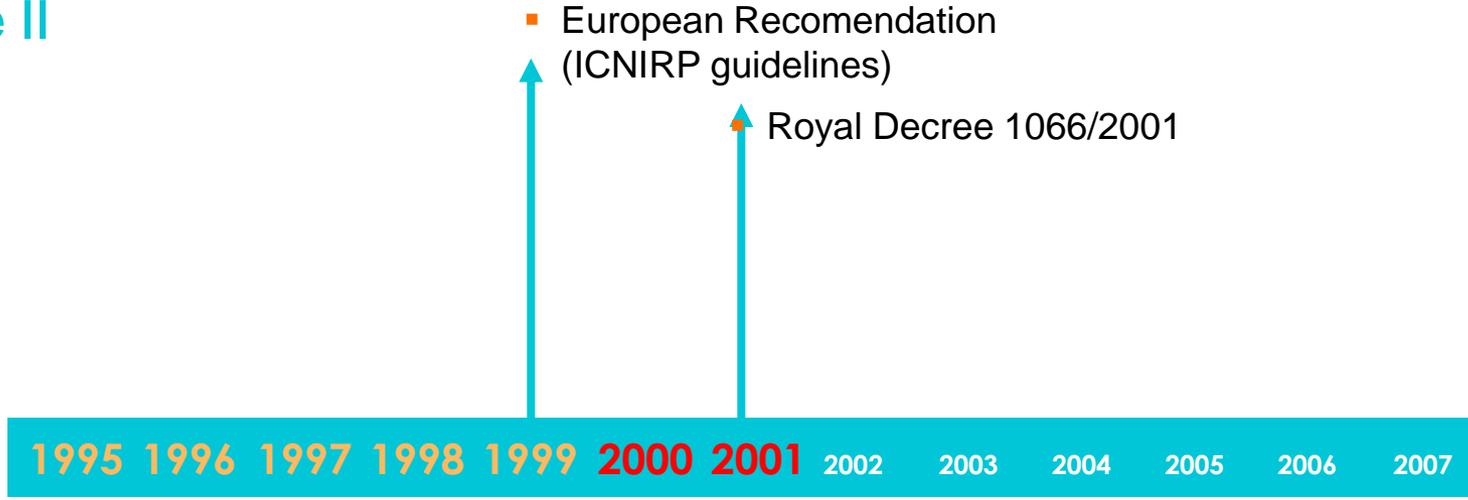
European Recommendation (ICNIRP guidelines)



- Facilities for deployment, which were:
 - fast
 - mass
 - without significant administrative burdens
 - highly localized difficulties

02 History of emissions and health issues for mobile operators in Spain

Phase II

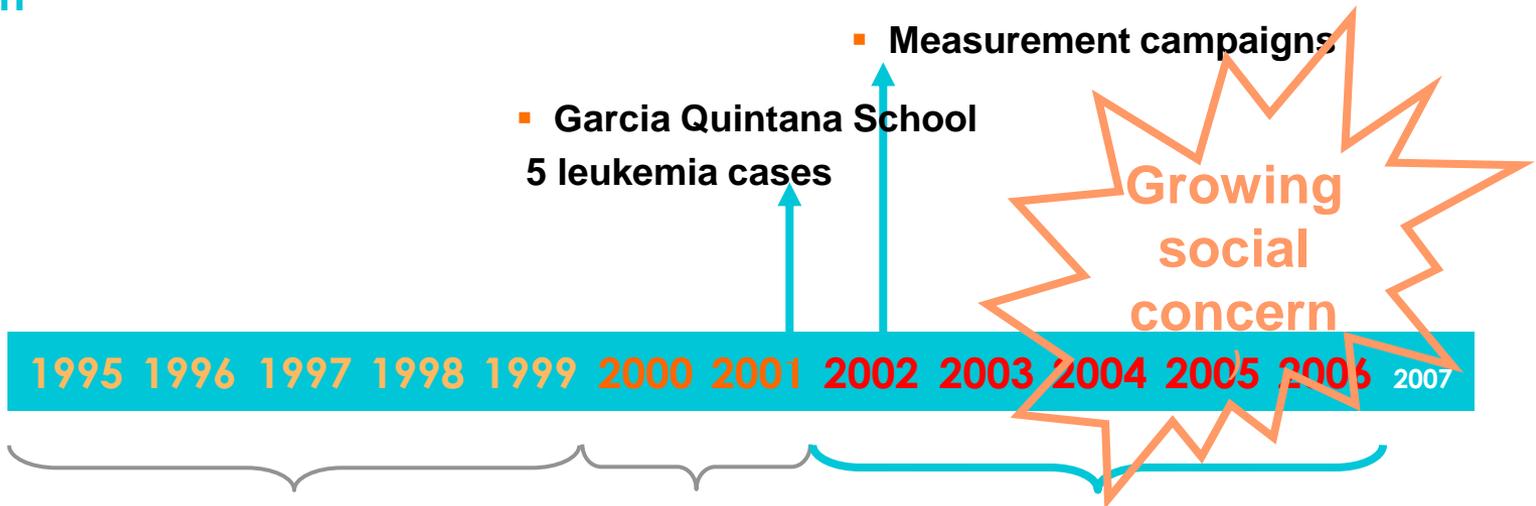


Facilities for deployment, which were:
fast
mass
without significant administrative burdens
highly localized difficulties

- Operators and installers detect increased difficulties:
 - performing work
 - Councils attitude change
 - licenses
 - moratorium
 - controls

02 History of emissions and health issues for mobile operators in Spain

Phase III



- Facilities for deployment, which were:
 - fast
 - mass
 - without significant administrative burdens
 - highly localized difficulties

- Operators and installers detect increased difficulties:
 - Performing works
 - Councils attitude change
 - licenses
 - moratorium
 - controls

- Proliferation rules
- Municipal moratorium
- Request for disconnections
- Significant media interest
- Difficulties in recruitment, installation and maintenance
- Anti-antennae activists
- Ratification of health security
- Favorable court sentences
- Political and institutional consensus

02 History of emissions and health issues for mobile operators in Spain:

Additional Provision (Law of Telecommunications)

Commission for the Development of Radio Infrastructure

Code of Good Practice

SATI

Phase IV



- Proliferation rules
- Municipal moratorium
- Request disconnections
- Important media interest
- Difficulties in recruitment, installation and maintenance
- Activists anti-antennas
- Ratification of health security
- Favorable judgments
- Political and institutional consensus



- **Heterogeneity of the existing regulations**
- **Supreme Court Decisions**
- **Increase in administrative burdens**
- **Delays in the granting of municipal approvals, Duplication of requirements**
- **Social concern, supported by politicians**
- **Municipal ordinances, (pursuant to the Local Finance Law), a fee for private and special use of the local public domain for the operators of mobile telephony services.**

03 Current status

At present, main obstacles for operators in Spain, are focused primarily on the following:

REGULATORY AND JUDICIAL

In the huge disparity and **heterogeneity of the existing regulations**, as virtually every City Council establishes specific rules about it. Telefónica Spain, as well as other mobile operators, have been legally obligated to appeal most of the ordinances that arise from different excesses.

ADMINISTRATIVE

Administrative burdens, delays in the granting of municipal approvals, duplication of paperwork and reporting requirements to which operators are subjected to deploy their mobile telecommunications infrastructure. The deployment of mobile infrastructure is subject not only to **state regulations**, but also to **regional regulations** (mainly environmental) and, especially, **municipal** regulations. Local administrations are responsible for urban planning and management of the processing and granting of municipal licenses.

SOCIAL CONCERN

Regarding **social concern**, in some cases political institutions have supported and represented the concerns, causing increasing pressure which is stronger in the municipalities.

FISCAL

In Spain, many municipalities include in their ordinances, (pursuant to the Local Finance Law), a fee for private and special use of the local public domain for the operators of mobile telephony services. This **rate represents 1.5% of total revenues** of mobile operators.

03 Current status

Telefonica Spain approach:

REGULATORY AND JUDICIAL ADMINISTRATIVE

Administrative Simplifications

- Policy of Directive of Services
- Policy of Reactivation of Spain's Economy
- New version General Law of Telecommunications (coming at the end of this year)



Model Ordinance Proposal Statement of Responsibility

Supreme Court

Administration competence invasion

Administrations are not competent on certain issues in the area being regulated. Some of them have already been the subject of resolutions by the High Courts and the Supreme Court:

- ❑Municipal Ordinances on measures to protect health: setting different limits from the Royal Decree or exclusion measures in sensitive areas.
- ❑Obligation and conditions of unlimited civil liability insurance or for reasons of possible health effects in the long term.

Exclude the possibility of establishing additional protection to RD 1066/2001.

03 Current status

Telefonica Spain approach:

SOCIAL CONCERN (I)

- Political institutions have supported and represented the concerns, causing increasing pressure which is stronger in the municipalities.
- In Spain, there are **numerous anti-antenna associations perfectly structured and organized**: the claims of these groups receive a warm welcome from the press, public opinion and some political organizations.



- Scientific Advisory Committee on Radio Frequencies and Health



- Hipersensitivity cases are increasing

03 Current status

Telefonica Spain approach:

SOCIAL CONCERN (II)

REDEL: Telecommunications Operators Associations

CDIT: Committee support for the deployment:

Identify burdens to roll out and where
Implement Institutional Plans all operators together represented by REDEL



FEMP: Spanish Federation of Municipalities and Provinces

SATI:
•Legal
•Health
•Technical

Develop events in municipalities represent barriers
Close cooperation in communication plans to address this issue



Keeping our employees informed - Intranet

Home Page

Environmental management

Electromagnetic fields

- > General aspects
- What the experts say
- Frequently asked questions
- EMF Explained Series
- Links of interest



General aspects

All operational Telefónica base stations have been installed in compliance with [criteria established by the International Commission on Non-Ionizing Radiation Protection \(ICNIRP\)](#), the independent advisory body to the World Health Organisation (the WHO).

These criteria include electromagnetic field exposure limits which ensure there are no health risks. Telefónica complies with such limits **in all the countries in which we operate**, even in those markets where no legislative framework exists.

The **Telefónica Environmental Management System** means we have to take measurements at base stations which subsequent audits use to confirm compliance with ICNIRP levels. Similarly, in countries such as Spain, Argentina and Ecuador, existing regulations demand that we make annual inspections of the emissions at our base stations in order to guarantee exposure levels for those working there. The actual levels are well below established limits.

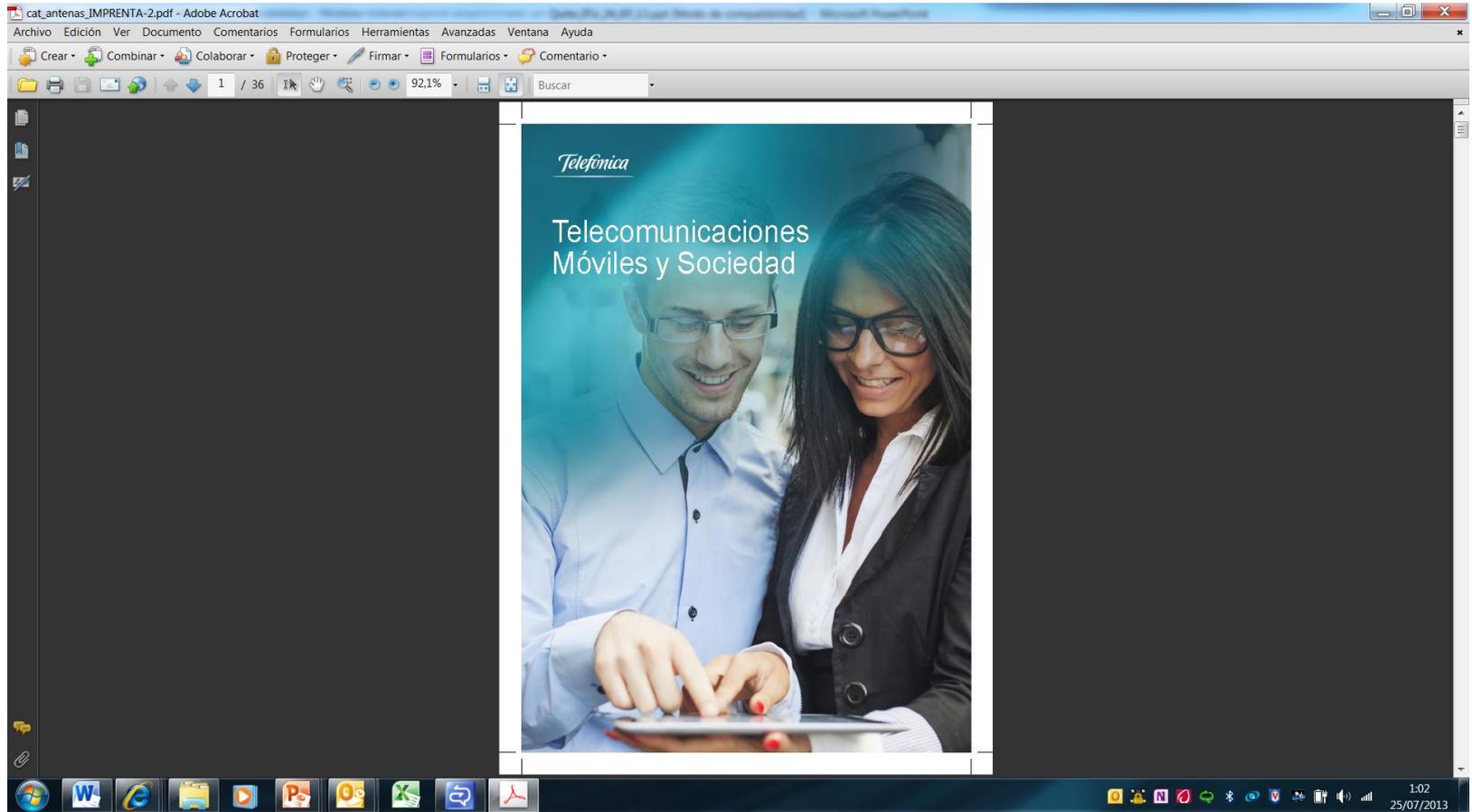
Existing regulations regarding these electromagnetic field exposure limits are developed by groups of experts representing bodies such as the **ICNIRP**, on an international level, **CENELEC** in Europe or the **FCC** in the United States. They assess and evaluate the state of applicable science to date, identifying exposure levels in order that possible effects on people can be identified and incorporating security margins based on aspects such as environmental conditions, possible greater sensitivity of certain population groups such as the elderly, children and those who are sick, and differences in the absorption of electromagnetic energy in people of different sizes.

Here at Telefónica we are fully aware of social concern regarding antennas and mobile phones. Our opinion on the matter is based on what the experts say: **“Scientific studies to date** have not established any danger to health from exposure to radio-frequencies **from mobile phone equipment** as long as the levels recommended by the **World Health Organisation (WHO)** are respected as set out in the ICNIRP recommendations”.

03 Current status

Telefonica Spain approach:
Keeping our employees informed

[SOCIAL CONCERN \(IV\)](#)



03 Current status

Telefonica Spain approach:

[SOCIAL CONCERN \(V\)](#)

Keeping our employes informed

**TE INVITAMOS A CONOCER
EL ENTORNO TECNICO,
CIENTIFICO, NORMATIVO
Y SOCIAL QUE RODEA A LAS
TELECOMUNICACIONES
MOVILES.**

03 Current status

Telefonica Spain approach:

SOCIAL CONCERN (VI)

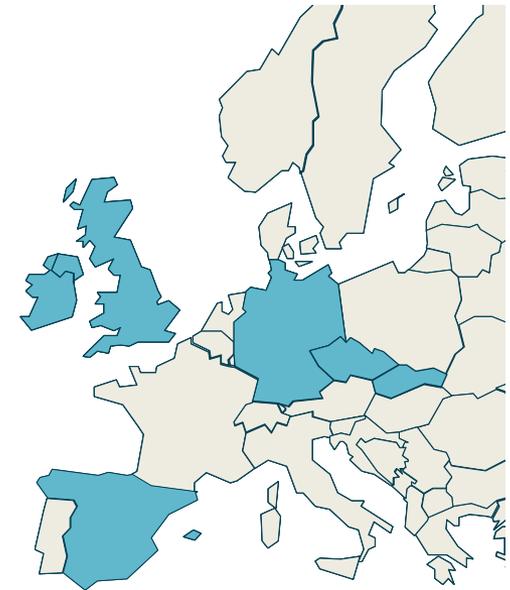
Keeping Organized by Institutional Relationship area

- Same speech
- Common Strategy depending the Region
- All area involved study the case together
- Centralize information of every cases
- Global vision then we can copy strategies from one case to another

05 Opportunities and Challenges



- To coordinate the approach of all the countries
- To keep the public informed/to be transparent
- To anticipate risks
- To develop common strategies
- To share best practices



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